

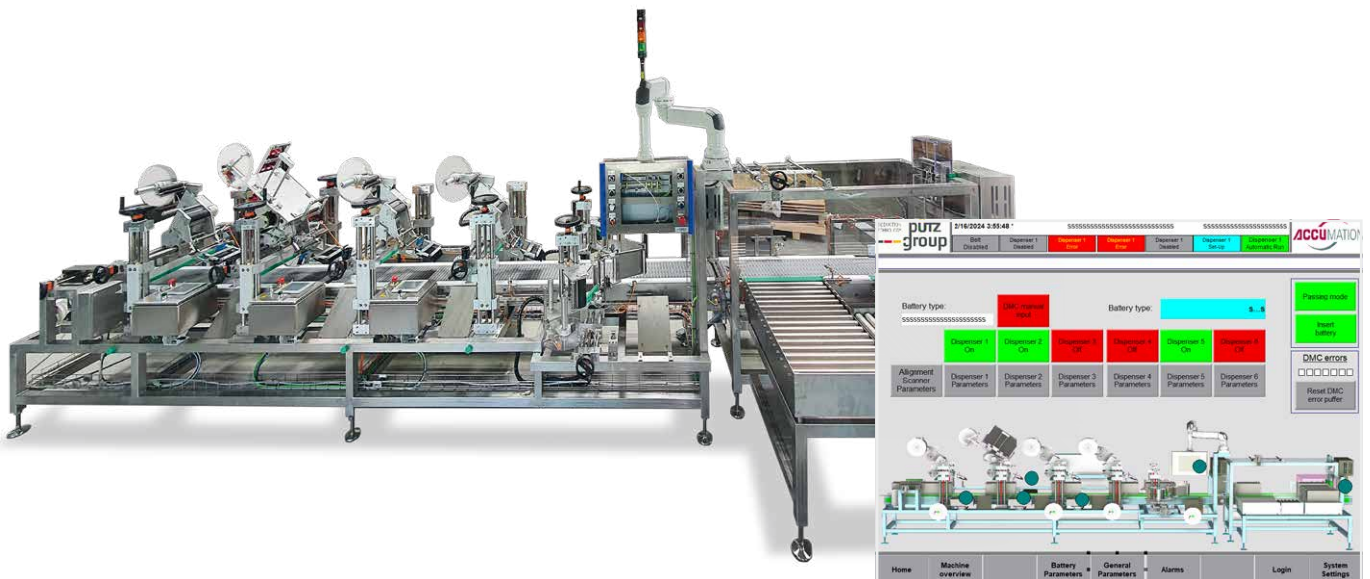
Project description

Labelling system

Task:

The automation of a labelling system for batteries in cooperation with **Accumation GmbH** in Limburg-Offheim.

Automotive batteries are to be conveyed on a conveyor belt that runs beneath label dispensers. The corresponding labels should be printed and applied to the batteries during the conveying movement with an accuracy of +/- 0.25 mm.



Plant operation via a 15" touch panel

Our solution concept:

Feasibility analysis:

Calculations have been performed to determine all signal transit times that have to be achieved in order to reach an accuracy of +/- 0.25 mm. In doing so, all disturbance variables, such as sensor running times, bus cycle times, belt speeds, etc. had to be taken into account. A **control concept** based on Allen Bradley components was then developed and used for the practical implementation. A **label printer**, which prints the labels to be dispensed immediately prior to their use, was also integrated **via TCP**. This code was later validated with an appropriate **scanner**.

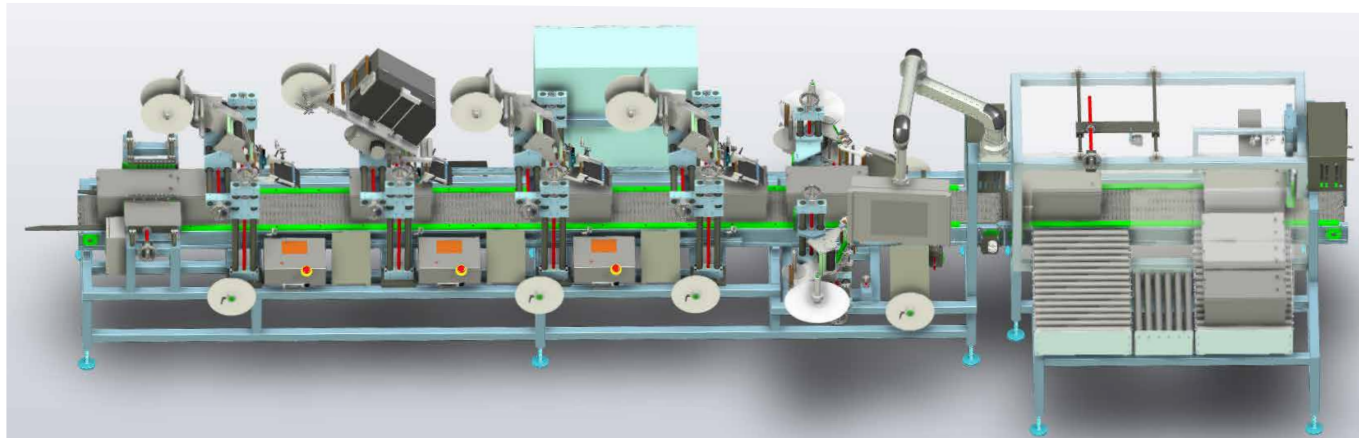
Control system:

Rockwell Logix PLC with a PanelView 15" touch panel

Plant operation:

The system is operated via a large **15" panel and several small control points** on the dispenser heads. All parameters can be conveniently set on the main control panel and selected from existing recipe lists. During operation, **individual dispensers can be deactivated** and **product changes can be implemented**, so that the system never has to come to a standstill.

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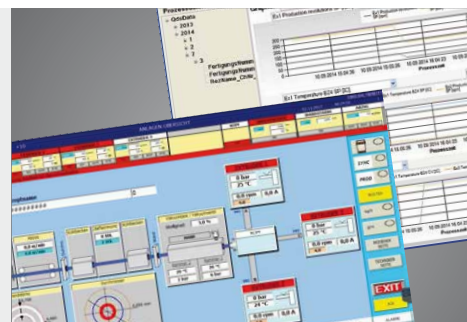


Our scope of services:

- Feasibility analysis and control concept development (Allen Bradley)
- Electrical design
- Control cabinet construction in line with UL guidelines
- Electrical installation
- Commissioning in the factory and at the end customer's site

Everything from a single source

As a subsidiary of the **PütZ Group**, we offer more than just process automation. The joint development of ten mechanical and plant engineering companies to date has produced **synergy effects** that benefit our customers.



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